

IN THE CLAIMS

The status of the claims as presently amended is as follows:

1. (Currently Amended) An audio characteristic correction system for an audio surround system including an array speaker that reflects sound off a wall surface or a sound reflection board to create virtual surround sound, for correcting for audio characteristics of the wall surface or the sound reflection board, the audio characteristic correction system comprising:

a sound pickup device for picking up sound from the array speaker that has been reflected off the wall surface or the sound reflection board;

a character correction device for correcting, based on the sound picked up by the sound pickup device, at least one of frequency-gain characteristics or frequency-phase characteristics, of an audio signal input to the array speaker such that the sound reflected off the wall surface or the sound reflection board has desired audio characteristics at a desired listening position; and

a characteristic correction control device that changes the directivity of the array speaker while the sound pickup device is picking up sound so that the sound pickup device picks up sound reflected off of different areas of the wall surface or the sound reflection board,

wherein the array speaker includes a delay circuit and a plurality of directional speakers arranged in an array.

wherein the characteristic correction control device sends a plurality of prescribed directivity control coefficients to the delay circuit,

wherein the delay circuit changes delay times applied to the audio signal supplied to the directional speakers based on the directivity control coefficients to emit a plurality number of sounds each having a different focal position so that the plurality number of sounds reflect off of different areas of the wall surface or the sound reflection board,

wherein the characteristic correction control device receives and stores measurement results based on the sounds picked up by the sound pickup device regarding characteristics of the plurality number of sounds in relation to the directivity control coefficients, and

wherein the characteristic correction control device selects one of the plurality of directivity control coefficients based on the stored measurement results to control the directivity of the speakers.

2. (Currently Amended) An audio characteristic correction system for an audio surround system including an array speaker that reflects sound off a wall surface or a sound reflection board to

create virtual surround sound, for correcting for audio characteristics of the wall surface or the sound reflection board, the audio characteristic correction system comprising:

measurement means for measuring audio characteristics of the sound reflected off the wall surface or the sound reflection board;

characteristic correction means for correcting, based on the audio characteristics measured by the measurement means, at least one of frequency-gain characteristics or frequency-phase characteristics, of an audio signal input to the array speaker such that the sound reflected off the wall surface or the sound reflection board has desired audio characteristics at a desired listening position; and

characteristic correction control means for changing the directivity of the array speaker while the measurement means is measuring audio characteristics of the sound reflected of the wall surface or the sound reflection board so that the measurement means measures audio characteristics of different areas of the wall surface or the sound reflection board,

wherein the array speaker includes a delay circuit and a plurality of directional speakers arranged in an array,

wherein the characteristic correction control means sends a plurality of prescribed directivity control coefficients to the delay circuit,

wherein the delay circuit changes delay times applied to the audio signal supplied to the directional speakers based on the directivity control coefficients to emit a plurality number of sounds each having a different focal position so that the plurality number of sounds reflect off of different areas of the wall surface or the sound reflection board,

wherein the characteristic correction control means receives and stores measurement results based on the audio characteristics measured by the measurement means regarding characteristics of the plurality number of sounds in relation to the directivity control coefficients,
and

wherein the characteristic correction control means selects one of the plurality of directivity control coefficients based on the stored measurement results to control the directivity of the speakers.

3. (Previously Presented) The audio characteristic correction system according to claim 2, further comprising control means for setting at least one of the frequency-gain characteristics or frequency-phase characteristics, of the audio signal input to the array speaker for the characteristic correction means.

4-5. (*Canceled*)

6. (*Currently Amended*) The audio characteristic correction system according to claim 1, wherein the array speaker further includes ~~a delay circuit, a plurality of speakers arranged in an array,~~ a plurality of gain adjustment circuits, each for one the speakers, and a plurality of amplifiers, each for one of the speakers, contained in a same housing.

7. (*Currently Amended*) The audio characteristic correction system according to claim 2, wherein the array speaker further includes ~~a delay circuit, a plurality of speakers arranged in an array,~~ a plurality of gain adjustment circuits, each for one the speakers, and a plurality of amplifiers, each for one of the speakers, contained in a same housing.

8-12. (*Canceled*)